

## Claims

1. A fuel injection device (22) for an internal combustion engine, with a housing (30, 32), with a recess (34) provided in the housing (30, 32), with at least two valve elements (36, 40) disposed coaxial to each other in the recess (34), each of which cooperates with a corresponding valve seat (38, 42) and each of which is associated with at least one corresponding fuel outlet opening (52, 54), characterized in that a shared valve device (56) is provided, which has at least three switched positions and influences the position of the valve elements (36, 40).
2. A fuel injection device (22), characterized in that in a first switched position of the shared valve device (56), both of the valve elements (36, 40) rest against the valve seat (52, 54), in a second switched position, one of the two valve elements (40) is lifted away from its valve seat (54), and in a third switched position, both of the valve elements (36, 40) are lifted away from their valve seats (52, 54)
3. The fuel injection device (22) according to one of claims 1 or 2, characterized in that the shared valve device includes a 3/3-way valve (56), which is connected to a low-pressure connection (72), a control chamber (76) of the first valve element (40), and a control chamber (84) of a hydraulically switchable valve device (86), which is in turn connected to a control chamber (114) of a valve element and to a high-pressure connection (106).

4. The fuel injection device (22) according to claim 3, characterized in that a flow throttle (122) is disposed in the flow path between the high-pressure connection (106) and the control chamber (84) of the hydraulically switchable valve device (86).
5. The fuel injection device (22) according to one of claims 3 or 4, characterized in that a flow throttle (82) is disposed in the flow path between the control chamber (84) of the hydraulically switchable valve device (86) and the shared valve device (56).
6. The fuel injection device (22) according to one of the preceding claims, characterized in that the one valve element (40) functions in a pressure-controlled manner and the other valve element (36) functions in a stroke-controlled manner.
7. The fuel injection device (22) according to claim 6, characterized in that the pressure-controlled valve element (40) is disposed radially outside the stroke-controlled valve element (36).
8. The fuel injection device (22) according to one of the preceding claims, characterized in that the control chamber (114) of the pressure-controlled valve element (40) is connected to the hydraulically switchable valve device (86).
9. The fuel injection device (22) according to claim 8, characterized in that in an end position of the shared valve device (56), the control chamber (76) of the stroke-controlled valve element (36) and the control chamber (84) of the hydraulically switchable valve device (86) are connected to only the high-pressure connection (106).